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NOTICE OF ALLOWANCE AND FEE(S) DUE

38155

7590

07/10/2009

HASSE & NESBITT LLC 8837 CHAPEL SQUARE DRIVE SUITE C CINCINNATI, OH 45249 EXAMINER

DESANTO, MATTHEW F

ART UNIT PAPER NUMBER

3763

DATE MAILED: 07/10/2009

| ١ | APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|---|-----------------|-------------|----------------------|---------------------|------------------|--|
| • | 10/605,187 | 09/12/2003 | Eric James Wall | CHM-005M | 2186 | |

TITLE OF INVENTION: METHOD AND DEVICE FOR PAINLESS INJECTION OF MEDICATION

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | YES | \$755 | \$300 | \$0 | \$1055 | 10/13/2009 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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| appropriate. All further indicated unless correct maintenance fee notifica | ted below or directed oth | ng the Patent, advance on the herwise in Block 1, by (| rders and notification a) specifying a new c | of n | naintenance fees w pondence address; | ill be and/o | mailed to the current r (b) indicating a sepa | corresp rate "F | ondence address as EE ADDRESS" for |
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| 38155 HASSE & NE 8837 CHAPEL SUITE C | /2009 | | | | | | | | |
| CINCINNATI, | | | | | | | (Depositor's name) | | |
| | | | | <u> </u> | | | | | (Signature) |
| | | | | | | | | | (Date) |
| APPLICATION NO. | FILING DATE | | FIRST NAMED INVENTO | | ATT | | ITORNEY DOCKET NO. | | FIRMATION NO. |
| 10/605,187 TITLE OF INVENTION | 09/12/2003 N: METHOD AND DEVI | ICE FOR PAINLESS IN | Eric James Wall | | DN | | CHM-005M | | 2186 |
| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE D | OUE | PREV. PAID ISSU | E FEE | TOTAL FEE(S) DUE | \top | DATE DUE |
| nonprovisional | YES | \$755 | \$300 | | \$0 | | \$1055 | | 10/13/2009 |
| EXAM | MINER | ART UNIT | CLASS-SUBCLASS | S | | | | | |
| DESANTO, MATTHEW F 3763 | | | 604-131000 | | | | | | |
| "Fee Address" inc PTO/SB/47; Rev 03- Number is required 3. ASSIGNEE NAME A PLEASE NOTE: Un | AND RESIDENCE DATA tless an assignee is ident th in 37 CFR 3.11. Com | " Indication form | data will appear on t | singley or a tattorial be or type the page an a | vely, e firm (having as a gent) and the nam meys or agents. If printed. e) atent. If an assign assignment. | membes of uno nam | p to le is 3lentified below, the de | ocumen | nt has been filed for |
| Please check the appropri | riate assignee category or | categories (will not be p | rinted on the patent): | 0 | Individual 🗖 Co | orporati | on or other private gro | oup enti | ty 🗖 Government |
| 4a. The following fee(s) Issue Fee Publication Fee (N | permitted) | 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). | | | | | | | |
| | atus (from status indicated ns SMALL ENTITY statu | | ☐ b Applicant is no | a lons | per claiming SMAl | L EN | ГІТҮ status. See 37 СІ | ∃ R 1 27 | (a)(2) |
| | | uired) will not be accepte tes Patent and Trademark | | | | | | | |
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| Authorized Signature | 2 | | | | Date | | | | |
| Typed or printed name | | | Registration No. | | | | | | |
| an application Confider | ntiality is governed by 35 and application form to the tions for reducing this but Virginia 22313-1450. DC | CFR 1.311. The information of U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR | 1.14 This collection i | ie eet | imated to take 12 i | minutes | to complete includin | o oathe | ring preparing and |

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| 38155 75 | 90 07/10/2009 | EXAMINER | | | | |
| HASSE & NESB | ITT LLC | DESANTO, MATTHEW F | | | | |
| 8837 CHAPEL SQ | UARE DRIVE | ART UNIT PAPER NUMBI | | | | |
| SUITE C CINCINNATI, OH | I 45249 | | 3763 DATE MAILED: 07/10/200 | 9 | | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 837 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 837 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

| | Application No. | Applicant(s) | | | |
|---|--|--|---------------------------|--|--|
| | 10/605,187 | WALL, ERIC JAMES | | | |
| Notice of Allowability | Examiner | Art Unit | | | |
| | MATTHEW F. DESANTO | 3763 | | | |
| The MAILING DATE of this communication appeall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RID | (OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to | olication. If not includ will be mailed in due | ed course. THIS | | |
| 1. X This communication is responsive to 06/19/09. | | | | | |
| 2. X The allowed claim(s) is/are <u>9-19,21,23,28,30,36,37 and 51</u> | <u>-54</u> . | | | | |
| 3. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: | been received. been received in Application No | | ition from the | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | | complying with the re | quirements | | |
| A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give | | | IOTICE OF | | |
| 5. CORRECTED DRAWINGS (as "replacement sheets") mus | et be submitted. | | | | |
| (a) I including changes required by the Notice of Draftspers | on's Patent Drawing Review (P T O- | 948) attached | | | |
| 1) ☐ hereto or 2) ☐ to Paper No./Mail Date | | | | | |
| (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date | s Amendment / Comment or in the O | iffice action of | | | |
| Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t | | | e back) of | | |
| DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT | | | Note the | | |
| Augustus ang (sa | | | | | |
| Attachment(s) 1. ☐ Notice of References Cited (PTO-892) | 5. Notice of Informal Pa | atent Application | | | |
| 2. Notice of Draftperson's Patent Drawing Review (PTO-948) | 6. ☐ Interview Summary Paper No./Mail Dat | | | | |
| 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 06/19/09 | nent/Comment | | | | |
| Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8. X Examiner's Statement of Reasons for Allowance | | | | |
| | 9. | | | | |
| | | | | | |

Application/Control Number: 10/605,187 Page 2

Art Unit: 3763

EXAMINER'S AMENDMENT

1. The examiner includes the examiner's amendment with the notice of allowance because a new updated claim set wasn't submitted with the RCE.

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Daniel Nesbitt on June 3, 2009.

The application has been amended as follows:

Cancel Claims 1-8, 22, 24-27, 29, 31-35, 38-50.

Claim 28:

A self-contained, automatically-sequencing device for painless, inter-muscular injection of a liquid medicament, comprising:

- a) a housing having a base for attachment to the skin of a patient,
- b) an injection needle disposed within the housing, the needle having an outside diameter less than about 0.38 mm, an inlet end and an opposed injection end, and being configured for movement between a first position wherein the injection end is within the housing and a second position wherein the injection end extends the base to a distance sufficient for intramuscular insertion thereof,

Application/Control Number: 10/605,187 Page 3

Art Unit: 3763

c) a reservoir containing a liquid medicament,

d) a means for liquid communication between the reservoir and the injection needle.

e) a means for inserting the injection needle to its second position,

f) a means for pumping the medicament from the reservoir to the injection end of the needle, wherein the pumping means pumps the medicament at a substantially constant volumetric flow rate of from about 0.5 µL/s to about 20 µL/s,

g) a means for retracting the injection needle from its second position to a third position

within the housing, and

h) a means for automatically sequencing and activating the inserting means, the pumping means and the retracting means.

Claim 54:

A device according to claim <u>2829</u>, further comprising a means for attaching the base of the self-contained device for semi-permanent attachment to the skin of the patient, the attaching means being configured wherein during the pumping step, a person in not required to hold the device.

Election/Restrictions

3. The claims are in condition for allowance and the restriction requirement, as set forth in the Office action mailed on 07/26/2006, has been reconsidered in view of the

allowability of claims to the elected invention pursuant to MPEP § 821.04(a). The restriction requirement is hereby withdrawn as to any claim that requires all the limitations of an allowable claim.

In view of the above noted withdrawal of the restriction requirement, applicant is advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.

Once a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

Reasons for Allowance

4. The following is an examiner's statement of reasons for allowance:

The subject matter of the independent claims could either not be found or was not suggested in the prior art of record. The subject matter not found was an injection device that is intended for a painless inter-muscular injection that has a housing, a needle with a specific diameter to help with flow rate and reduced trauma, a reservoir, a means for liquid communication, a means for inserting the needle into the patient, and a means for pumping a medicament from the reservoir at a constant volumetric flow rate that is from $0.5~\mu$ L/s to about $20~\mu$ L/s. The flow rate helps to provide a painless injection because of the rate in which the medicament is injected into the patient and at the constant volume during the injection.

Art Unit: 3763

The examiner also has invoked 112 6th paragraph for the means for language.

The independent claims also include other patentable subject matter in combination with the other elements or steps of the claim not mention in the above paragraph.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MATTHEW F. DESANTO whose telephone number is (571)272-4957. The examiner can normally be reached on Monday-Friday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nick LUCCHESI can be reached on (571) 272-4977. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/605,187 Page 6

Art Unit: 3763

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Matthew DeSanto /Matthew F DeSanto/ Primary Examiner, Art Unit 3763